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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/785,312	02/20/2001	Franciscus Richard Blom	142-360P	1993		
2292 BIRCH STF	7590 04/02/2002 WART KOLASCH & E	EXAMINER				
PO BOX 747 FALLS CHURCH, VA 22040-0747			BUDD, MARK OSBORNE			
21222	,		ART UNIT	PAPER NUMBER		
			2834			
			DATE MAILED: 04/02/2002	2 '		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N		Applicant(s)		
	785 312		Blom		_ · · ·
Office Action Summary	Examiner	M R.	( )	Group Art Unit	
	/	1 100		7834	
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eriod for Response		2			JW
SHORTENED STATUTORY PERIOD FOR RESPONSE IS SETAILING DATE OF THIS COMMUNICATION.				TH(S) FROM THE	
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.15 from the mailing date of this communication.</li> <li>If the period for response specified above is less than thirty (30) days, a</li> <li>If NO period for response is specified above, such period shall, by default-respond to respond within the set or extended period for response will, by</li> </ul>	response withi	n the statute  6) MONTHS	ory minimum of S from the mailir	thirty (30) days will be co	nsidered timel ation .
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☐ Responsive to communication(s) filed on					•
☐ This action is FINAL.				_ Ab	nalio
☐ Since this application is in condition for allowance except for accordance with the practice under <i>Ex parte Quayle</i> , 1935	or formal mat C.D. 1 1; 45	ters, <b>pros</b> 3 O.G. 21	secution as t 3.	o the merits is close	e <b>a</b> in
Disposition of Claims					
Claim(s)			is/are	e pending in the appli	
Of the above claim(s)			is/are	e withdrawn from con	sideration.
☐ Claim(s)			is/are	e allowed.	
☐ Claim(s)			is/are	e rejected.	
☐ Claim(s)			is/arc	e objected to.	
□ Claim(s)			are s	subject to restriction of	or election
			requ	irement.	
Application Papers	. Review. PT	O-948.			
☐ The proposed drawing correction, filed on	is 🛚	approved	☐ disappro	ved.	
☐ The proposed drawing correction, mod on is/are object	ed to by the	Examiner.			
☐ The specification is objected to by the Examiner.					
☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119 (a)-(d)					
	nder 35 U.S.C	). § 11 9(a	a)-(d).		
Acknowledgment is made of a claim for foreign priority un	the priority d	ocuments	have been		
<ul> <li>□ received.</li> <li>★ received in Application No. (Series Code/Serial Number</li> <li>□ received in this national stage application from the Interest</li> </ul>	ernational Bu	reau (PC)	T Rule 1 7.2(a	a)).	
*Certified copies not received:				•	
Attachment(s)	2/2	20:20			
Attachment(s) Information Disclosure Statement(s), PTO-1449, Paper N	lo(s). 🕹 ( ð-	10.01	∃ Interview Sເ	ımmary, PTO-413	
☐ Notice of References Cited, PTO-892			☐ Notice of Inf	formal Patent Applica	tion, PTO-1
☐ Notice of Draftsperson's Patent Drawing Review, PTO-94	18	[	☐ Other		
	e Action Su	mmary			
. S. Patent and Trademark Office		62740		Part of Par	or No

PTO-326 (Rev. 3-97)

Part of Paper No. \_\_\_6

Serial Number: 09/785,312

Art Unit: 2834

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3 and 8 are rejected under 35 U.S.C. 102(a) as being anticipated by Japan (100) (figs. 3 & 5).

In figure of 3 of Japan the structure of active and inactive regions is shown with the collector or take out electrodes provided as claimed. Applicant asserts that the common electrode 11 exhausts only on the outer surfaces and therefore does not alternate with the signal and auxiliary electrodes i.e. some signal and/or auxiliary electrodes are not adjacent common electrodes. The examiner is unable to confirm or refute applicants position due to the fuzzy schematic nature of fig. 3. However, fig. 5 of Japan (1200) clearly shows that the ground (common) electrode #11 is interleaved between every signal and dummy electrode. Thus Japan (100) clearly anticipates these claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 4-7, 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japan (100), Naka or Prior art in view of Uehara, Dibbern or Okumura.

Japan (100) (fig. 3) Naka (fig. 16) and the Prior Art (applicants fig. 4) teach the basic piezoelectric actuator except for the specific lead arrangements. Each of Uehara, Aibbern and Okumura teach that location of electrode leads in piezoelectric transduces is a matter of convience and expediency. As demonstrated, the leads can be brought to a single top surface (Okumura) and/or multiple side location sat the designers discretion. Such choices are a matter of obvious design options as would be apparent to one of ordinary skill in the art. The length of the piezo element relative to the ink channel is also a routine design consideration. (Note e.g. Europe (939) fig. 9).

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